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WAREWASH DELIMER

Liquid Lime Scale Remover

GENERAL DESCRIPTION:

Warewash Delimer acid cleaner is a unique combination of synthetic detergents and acids that rapidly penetrates and removes mineral deposits and hard water films.

EFFECTIVE:

Warewash Delimer cleans and brightens metals quickly and easily.

VERSATILE:

Warewash Delimer can be used to clean and remove scale deposits on dishwashers, food service equipment, coffee urns, and steam tables.

DIRECTIONS FOR USE:

Recommended for Institutional use only.

Warewash Delimer can be used to clean and remove scale deposits on dishwashers, food service equipment, coffee urns, and steam tables. Dilution rate of 8 oz. of product to 128 oz. of water.

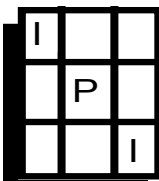
CAUTION

KEEP OUT OF THE REACH OF CHILDREN

Only for sale to, use and storage by Service Personnel.

For best product efficiency keep stock rotated.
Shelf life is 1 year

Judgements as to the suitability of the information provided herein for the purchaser's purposes are necessarily the purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Iowa Prison Industries extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to the purchaser's intended purposes or for the consequences of its use.



**IOWA
PRISON
INDUSTRIES**

MATERIAL SAFETY DATA SHEET

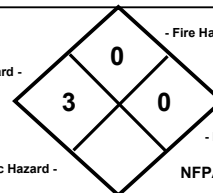
(Prepared According to 29 CFR 1910.1200)

Date Prepared: 7/12/07
Supersedes Date: 8/1/06

HAZARD RATING

4-EXTREME
3-HIGH
2-MODERATE
1-SLIGHT
0-INSIGNIFICANT

Health Hazard -



- Reactivity

NFPA CODE 704

SECTION 1 - PRODUCT IDENTIFICATION

Manufacturer Name IOWA PRISON INDUSTRIES Emergency Telephone No. (319) 462-3547
Address 406 North High Street, Anamosa, Iowa 52205
Trade Name- **WAREWASH DELIMER** Product Type- Liquid delimer
Chemical Family- Liquid Acid Delimer Formula- Proprietary Blend

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME / COMMON NAME	CAS. NO	PERCENT (optional)	OSHA STANDARDS	ACGIH GUIDELINES
Phosphoric acid	7664-38-2	10.0 – 30.0	2.5 MG/M3 TWA FLUORIDES, AS F	2.5 MG/M3 TWA FLUORIDES, AS F
Hydrochloric acid	7647-01-0	1.0 – 5.0	5 PPM Ceiling Limit	5 PPM Ceiling Limit

SECTION 3 - PHYSICAL DATA

Boiling Point (°F) 212 Specific Gravity (H2O = 1.0) 1.074 pH- Below 2.0
Vapor Pressure- N.A.V. Vapor Density (Air = 1) N.A.V.
Solubility in Water- ☒ Complete ☐ Insoluble ☐ Emulsifiable (or dispersible) ☐ Slight (or partial)
Evaporation Rate- (vs H2O) ☐ Faster ☐ Slower ☒ About the Same
Appearance and Odor- Clear orange, non-viscous liquid, acidic odor

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point- (T.C.C.) ☒ None to Boiling Flammable Limits- Upper- NONE Lower- NONE
Extinguishing Media- Water, foam, CO2, dry chemicals
Special Fire Fighting Procedures- Acidic solution- attacks reactive metals. Wear full protective gear to prevent skin contact and self-contained breathing apparatus
Unusual Fire and Explosion Hazards- Heat or fire may release acid vapors. Physical Hazards- Corrosive

SECTION 5 - REACTIVE DATA

Stability- Yes Incompatibility- Avoid mixing directly with any other cleaning product. Avoid bases and bleach. Avoid various metals (aluminum, zinc, tin, brass or bronze) which can generate flammable hydrogen gas. Mix only with water.
Hazardous Decomposition Products- Fire or mixing with bleach may cause release of chlorine gas, oxides of sulfur and other toxic and irritating fumes.

SECTION 6 - HEALTH HAZARDS

Primary Routes of Exposure- ☒ Eye ☒ Skin ☒ Oral ☒ Inhalation ☐ Other-
Signs and Symptoms of Over-Exposure (Acute)- Corrosive. Causes skin burns. Causes eye burns. May cause permanent damage including blindness without immediate first aid treatment. Harmful or fatal if swallowed. Inhalation of mists may cause corrosive effects to nose, throat, and respiratory system.
Signs and Symptoms of Over-Exposure (Chronic)- None known.
Medical Conditions Aggravated by Over-Exposure- Any respiratory or skin condition.
Carcinogen or Suspect Carcinogen Ingredients- ☐ NTP ☐ IARC ☐ OSHA ☒ NONE

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

Eyes: Immediately flush eyes with running water for at least 15-20 minutes, keeping eyelids open. Get medical attention.
Skin: Immediately flush with plenty of water for at least 15-20 minutes. Remove and wash contaminated clothing and footwear before re-use. Get medical attention.
Ingestion: Give a cupful of water or milk. Then immediately contact a physician or poison center. Do not induce vomiting unless directed to do so by medical personnel. never give anything by mouth to an unconscious person.
Inhalation: If breathing is affected: remove to fresh air. Get medical attention.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection- None usually required.
Ventilation Requirements- General room ventilation is typically adequate. ☐ Local Exhaust ☐ Mechanical ☐ Other-
Protective Gloves- Neoprene, chemical-resistant Eye Protection- Safety goggles and an eye-wash station.
Other Protective Clothing- Chemically impervious clothing and safety shower.

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken if Released or Spilled- Evacuate unprotected personnel from area. Wear proper protective equipment including rubber boots. Ventilate area if needed. Stop leak if you can do so without risk. Dike or dam large spills. Avoid direct discharge to sewer and surface waters. Pump or scoop to container or soak up with non-combustible inert absorbent materials. After spill collection, rinse area with water and follow with normal clean-up procedures. Be careful as spills are slippery.

Waste Disposal Methods- Undiluted product is regulated under environmental and transportation laws as a corrosive waste (RCRA Class D002). Dispose of according to all federal, state, provincial and local laws and regulations. Consult state and local authorities for restrictions on disposal of chemical waste. Manage chemical wastes through an approved waste treatment facility. Do not reuse empty container. Rinse empty container thoroughly with water before discarding container in accordance with current local community codes. Please recycle empty container whenever possible.

SECTION 10 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage- HANDLING: Follow all label directions. Instruct personnel about proper use, hazards, precautions, and first aid measures. Avoid inhalation, ingestion, and contact with skin, eyes and clothing. Do not taste or swallow. Remove and wash contaminated clothing and footwear before re-use. Product residue may remain in empty containers. Handle carefully to avoid damaging container. STORAGE: Rotate stock regularly. Keep container closed when not in use. Avoid temperatures below 35°F or above 120°F. Protect from freezing. Storage at ambient temperatures in a dry area out of direct sunlight is recommended. Keep away from food and drink. Keep out of children's reach.

N.A.P. = Not applicable. N.A.V. = Not available. NE = Not established.